

**PROMINENCE OBSERVATION WITH DANJON
ASTROLABE AT 11 AUGUST 1999 ECLIPSE**

Petre Popescu et al.

Astronomical Institute, Romania

A solar prominence was observed at the total solar eclipse from 11 August 1999 using the Danjon astrolabe. The technical equipment we have used was composed by: the 100/ 3500 mm astrolabe, CCD Camera Cohu 4710, interference filter GRUBB PARSONS. The entire complex has a resolution of 0.475 arcsec/px.

Our observations started at the UT 11h12m43.178s, four minutes after the 3-rd contact, and last till 11h13m27.865s. The prominence was located on the West border of the Sun. The solar object observed by our team has two parts: the first and main part of the prominence body could be seen well until UT 11h12m 49.15s and partially till UT 11h13m18.228s, when the second feature, as an appendix, appears in the frame of view of the instrument. The second is an eruptive prominence as could be seen on SOHO observations. The analysis use a set of almost 100 images. Our results show the fine structure of the prominence and its internal dynamics.

Co-authors: Radu Popescu, Cristiana Dumitrache.